

HOWREY SIMON ARNOLD & WHITE, LLP

Serial No.: 09/737,234

12598.0128.NPUS00

Page 2

I. CLAIM AMENDMENTS

1. (previously amended) A composite laminate interlayer for adhering a glass laminate consisting essentially of a sheet of polyethylene terephthalate between two layers of plasticized polyvinyl butyral adhesive layers, wherein both layers of plasticized polyvinyl butyral have a thickness in the range of 0.25 to 2 millimeters (10-80 mils) and wherein at least one of said polyvinyl butyral adhesive layers has a glass transition temperature greater than 35 °C.
2. An interlayer according to claim 1 wherein said polyvinyl butyral adhesive layers are of different thickness.
3. An interlayer according to claim 1 wherein said polyethylene terephthalate sheet has a thickness greater than 0.075 millimeters (3 mils).
4. An interlayer according to claim 1 wherein said polyethylene terephthalate sheet has a thickness greater than 0.1 millimeters (4 mils).
5. An interlayer according to claim 1 wherein said sheet of polyethylene terephthalate has a functional coating for reducing radiation transmission through said glass laminate.
6. (previously amended) A composite laminate interlayer for adhering glass laminates consisting essentially of a layer of polyethylene terephthalate between two layers of plasticized polyvinyl butyral adhesive layers, wherein the polyethylene terephthalate layer has a thickness in the range of 0.125 to 0.254 millimeters (5-10 mils); and each adhesive layer has a thickness in the range of 0.25 to 2 millimeter (10 - 80 mils) and wherein at least one layer of plasticized polyvinyl butyral has a glass transition temperature greater than 35 °C.
7. (previously cancelled)
8. (cancelled)
9. (previously amended) A glass laminate having improved stiffness comprising in order:
 - (a) a first glass sheet,
 - (b) a first layer of plasticized polyvinyl butyral adhesive having a thickness in the range of 0.25 to 2 millimeters (10 - 80 mils),
 - (c) a sheet of polyethylene terephthalate greater than 0.075 millimeters (3 mils) thick,

HOWREY SIMON ARNOLD & WHITE, LLP

Serial No.: 09/737,234

12598.0128.NPUS00

Page 3

- (d) a second layer of plasticized polyvinyl butyral adhesive having a thickness in the range of 0.25 to 2 millimeter (10 - 80 mils), and
 - (e) a second glass sheet,
- wherein said glass laminate exhibits a maximum flexural modulus of greater than about 350 Newtons/centimeter, and
- wherein at least one of the layers of plasticized polyvinyl butyral has a glass transition temperature greater than 35 °C.
10. A glass laminate according to claim 9 exhibiting a maximum load before failure of at least 3000 Newtons.
11. (previously cancelled)
12. A glass laminate according to claim 9 wherein at least one of the layers of plasticized polyvinyl butyral has a glass transition temperature greater than 40 °C.
13. (cancelled)
14. A glass laminate according to claim 9 wherein said sheet of polyethylene terephthalate has a radiation blocking coating.
15. (previously amended) A glass laminate having improved stiffness consisting essentially of in order:
- (a) a first glass layer,
 - (b) a first layer of plasticized polyvinyl butyral adhesive having a thickness in the range of 0.25 to 2 millimeters (10 - 80 mils),
 - (c) a layer of polyethylene terephthalate,
 - (d) a second layer of plasticized polyvinyl butyral adhesive having a thickness in the range of 0.25 to 2 millimeters (10 - 80 mils),
 - (e) a second glass layer,
- wherein at least one layer of plasticized polyvinyl butyral adhesive has a glass transition temperature greater than 35 °C
16. A glass laminate according to claim 15 wherein said glass laminate exhibits a maximum flexural modulus greater than about 350 Newtons/centimeter.

HOWREY SIMON ARNOLD & WHITE, LLP

Serial No.: 09/737,234

12598.0128.NPUS00

Page 4

17. A glass laminate according to claim 15 wherein said glass laminate exhibits a maximum flexural modulus greater than about 450 Newtons/centimeter.
18. A glass laminate according to claim 15 wherein said glass laminate exhibits a maximum flexural modulus greater than about 550 Newtons/centimeter.
19. A glass laminate according to claim 15 wherein said glass laminate exhibits a maximum flexural modulus greater than about 650 Newtons/centimeter.
20. A glass laminate according to claim 15 exhibiting a maximum load before failure from a secured frame of at least 3000 Newtons.
21. A glass laminate according to claim 15 exhibiting a maximum load before failure from a secured frame of at least 4000 Newtons.
22. A glass laminate according to claim 15 exhibiting a maximum load before failure from a secured frame of at least 5000 Newtons.
23. A glass laminate according to claim 15 exhibiting a maximum load before failure from a secured frame of at least 6000 Newtons.
24. A glass laminate according to claim 15 wherein said sheet of polyethylene terephthalate has a radiation blocking coating.
25. (cancelled)
26. (previously cancelled)
27. (previously cancelled)
28. (previously cancelled)